Section 3. Amendments to the Claims

Please cancel claims 24 and 32 and amend the claims 1-23 and 25-31, as set out below in the listing of claims 1-32 of the application:

- 1. (Currently amended) Extrusion An extrusion apparatus comprising:
- at least one first reservoir (1) connected at a first end to a first opening of a plurality of regulatory modules (4) containing passages (17), through which material (25) is excludable, wherein the extrusion apparatus (4) has at least 1000 passage (17) passages per square meter cross-section.
- 2. (Currently amended) Extrusion An extrusion apparatus according to claim 1, wherein the regulatory module (4) additionally comprises at least one second reservoir.
- 3. (Currently amended) Extrusion An extrusion apparatus according to claim 2, wherein the second reservoir is fluidly connected to at least an opening in at least one of the passages (17).
- 4. (Currently amended) Extrusion An extrusion apparatus according to claim 1 one of the above claims, further comprising sensors (70).
- 5. (Currently amended) Extrusion An extrusion apparatus according to claim 1 one of the above elaims, further comprising at least one sensor selected from the group consisting of the following sensors: pressure sensors, temperature sensors, chemical sensors, pH sensors and/or and light-scattering sensors.
- 6. (Currently amended) Extrusion An extrusion apparatus according to claim 1 one of the above elaims, wherein at least one of the regulatory modules (4) comprise comprises at least one individual sensor (70).
- 7. (Currently amended) Extrusion An extrusion apparatus according to claim 4 one of the above claims, wherein the sensors are integral to the regulatory modules (4).
- 8. (Currently amended) Extrusion An extrusion apparatus according to claim 1 one of the above elaims, wherein the regulatory modules (4) further additionally comprise one or more pumps (2) at least one pump.

- 9. (Currently amended) Extrusion An extrusion apparatus according to claim 1 one of the above elaims, wherein the regulatory modules (4) further additionally comprise at least one pump selected from the group consisting of piezo-electric pumps and or vibration pumps (2).
- 10. (Currently amended) Extrusion An extrusion apparatus according to claim 1 one of the above elaims, wherein the passages comprise tubular passages (17) have having flow inlets.
- 11. (Currently amended) Extrusion An extrusion apparatus according to claim 1 one of the above elaims, wherein said passages have interior walls the interior wall of the passages (17) are made of comprising a permeable material.
- 12. (Currently amended) Extrusion An extrusion apparatus according to claim 1 one of the above claims, wherein the regulatory modules (4) are injection moulded molded.
- 13. (Currently amended) Extrusion An extrusion apparatus according to claim 1 one of the above elaims, wherein the regulatory modules (4) are formed by ablasion.
- 14. (Currently amended) Extrusion An extrusion apparatus according to claim 1 any of the above elaims, wherein in operation the material (25) is drawn down at a first distance at least 0.5 mm from an outer exit opening (13) within the passages passage (17).
- 15. (Currently amended) Extrusion An extrusion apparatus according to claim 1 any one of the above claims, wherein a component of the material (25) in an initial zone in one of the passages (17) forms rod-shaped units (64) that are substantially perpendicular to the an internal surface of the passage (17).
- 16. (Currently amended) Extrusion An extrusion apparatus according to claim 1 any one of the above claims, wherein a component of the material (25) in a subsequent zone (62) of one of the passages (17) has rod-shaped units (64) which that tumble as material (25) flows within the passage (17).

- 17. (Currently amended) Extrusion An extrusion apparatus according to claim 1 any one of the above claims, further comprising a ridged surface (66) having a plurality of ridges (60) on the an internal surface of the passages passage (17).
- 18. (Currently amended) Extrusion An extrusion apparatus according to claim 17, wherein the height of the ridges (60) are is less than 10% than the of diameter of the passages passage (17).
- 19. (Currently amended) Extrusion An extrusion apparatus according to claim 17 one of claims 17 or claim 18, wherein the ridged surface (66) has a surface energy lower than the surface energy of the material (25).
- 20. (Currently amended) Extrusion An extrusion apparatus according to claim 17 one of the claims 17 to 19, wherein the passages are tubular passages, and the ridges (60) are substantially oriented along a long axis of the tubular passages passage (17).
- 21. (Currently amended) Extrusion An extrusion apparatus according to claim 17 one of the claims 17 to 20, wherein the ridges (60) are made of comprise hydrophobic material.
- 22. (Currently amended) Extrusion An extrusion apparatus according to claim 17 one of the claims 17 to 20, wherein the ridges (60) are coated with hydrophobic material.
- 23. (Currently amended) Extrusion An extrusion apparatus according to claim 22 one of the claims 17 to 22, wherein the constructed and arranged so that draw down of material occurs substantially adjacent to the hydrophobic material coated on the ridges ridged shaped surface coating (66).
- 24. (Cancelled)
- 25. (Currently amended) Extrusion An extrusion apparatus according to claim 1 any one of the above claims, further comprising cleaning apparatus.
- 26. (Currently amended) Extrusion An extrusion apparatus according to claim 25, wherein the cleaning apparatus comprises comprised a permeable interior wall in said passages of the passage (17) through which cleaning agents are introduced.

- 27. (Currently amended) Extrusion An extrusion apparatus according to claim 26, wherein the cleaning agents are comprise alkaline fluids.
- 28. (Currently amended) Extrusion An extrusion apparatus according to claim 3 one of claims 3 to 27, further comprising a microprocessor connected to at least one of the sensors (75) connected to the sensor (70).
- 29. (Currently amended) Extrusion An extrusion apparatus according to claim 28, wherein the microprocessor (75) has an output for sending signals to regulate at least one parameter of the extrusion apparatus.
- 30. (Currently amended) Extrusion An extrusion apparatus, according to claim 28 one of claims 28 or 29, wherein the microprocessor (75) is integral to the regulatory modules module (4).
- 31. (Currently amended) Extrusion An extrusion apparatus according to claim 1 any one of the above claims, wherein the extrusion apparatus is a spinning apparatus.
- 32. (Cancelled)